

3/26/2009

Amendments to the Specification

Please replace paragraph [18] with the following paragraph:

[18] Figures 2A-2B show alternative embodiments of springs useful in the energy harvester of the present invention, wherein Figure 2A is a perspective view of a coil spring and Figure 2B is a top detailed view of the spiral disk springs used in the embodiment illustrated in Figure 1.

Please replace paragraph [30] with the following paragraph:

[30] The springs 118 and 122 that attach the magnetic members to the housing can be any conventional springs, such as leaf and coil springs (see e.g. coil spring 180 in Figure 2A). In one embodiment, springs 118 and 122 are spiral disk springs. Figure 2B shows a top view of the spiral disk springs that can be used to couple the magnetic structure to the housing 116. Preferably these springs can be fabricated from any high-quality non-magnetic spring material, such as beryllium-copper or stainless steel. Each spring comprises a metal disk 200 with a central land 202 that is connected to an edge ring 204 by spiral arms 206 and 208 formed by spiral slots cut into the disk 200, of which slots 210 and 212 are shown. The mechanical stiffness of the springs can be controlled by varying the disk thickness and/or the number, width and length of the slots and thus the number, width and length of the spiral arms that support the land 202. Spiral disk springs, such as spring 200, are useful because they are compact and energy efficient as compared to leaf or coil springs.